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The Director of Central Intelligence
Washington, D.C. 20505

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Intelligence Research and Development Council

IR&DC 88-0007
25 May 1988

MEMORANDUM FOR: Deputy Director of Central Intelligence
FROM: [redacted]
Executive Secretary

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Attached for your information please find the minutes of the first meeting of the Council that Dr. Duncan has chaired. Cliff indicates that he will be most responsive to your guidance and intends to provide technical assistance as you may require. [redacted]

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Attachment
Minutes

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Intelligence Research and Development Council
Minutes of the 18 May 1988 Meeting

1. An Executive meeting was held by the members of the Intelligence Research and Development Council (IR&DC) at 1300 hours on 18 May 1988, in room 3E869, the Pentagon. The following principals or representatives were present: [redacted]

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Dr. Robert Duncan (Chairman), Director, Defense Research and Engineering

Mr. James Hirsch, Central Intelligence Agency

Dr. Jack Vorona, Defense Intelligence Agency

[redacted], National Security Agency

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Mr. Jimmie Hill, Office of the Secretary of the Air Force

LTG Edward Heinz, Director, Intelligence Community Staff

Mr. Thomas Handel, Office of Naval Intelligence

CMDR Edmond Pope, Department of the Navy

Mr. Bruce Zimmerman, Department of the Army

LTC James Beal, Department of the Air Force

Mr. William Bayse, Federal Bureau of Investigation

Mr. Charles Hawkins, Deputy Assistant Secretary of Defense (Intelligence)

Dr. Craig Fields, Deputy Director (Research), Defense Advanced Research Projects Agency

2. Dr. Duncan opened the meeting by stating that the DDCI had indicated that the DCI and he would like the Council to focus more on tracking emerging technologies and be less concerned with budgetary issues. In addition, Dr. Duncan noted that the DDCI would like the Council to take on the responsibility for making the Intelligence Community more aware of technologies which may be available and which may have application within the Intelligence Community. Dr. Duncan stated that the Council can obtain insights into technology developments from areas outside of the Intelligence Community such as Defense, DOE, NASA, industry and academia, as well as from the members of the Council. He indicated that the Council has the responsibility to continue to provide technical advice for the DCI and the DDCI. [redacted]

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3. Dr. Duncan introduced Dr. John Birely of Los Alamos National Laboratory. Mr. Birely spoke concerning their various research programs. He also stated his purpose is to emphasize the notions of solving problems using technology the same approach which is stressed at Los Alamos. [redacted]

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4. Dr. Birely indicated that he would give a broad overview of Defense related work and show how either intelligence guides what they are trying to do or else how they try to respond to problems that the Intelligence Community has and come up with solutions. He said that he hoped that this would be the start in many cases and a renewal in others of relationships which will be of a mutual advantage. Dr. Birely indicated that the Lab was formed in 1943 with only one mission, to design, test, and build an atomic weapon. That mission which continues is to apply scientific and engineering capabilities to assure the nation's deterrent through nuclear weapons technology. In addition, they support basic research in selected disciplines to help maintain a science and technology base, conduct other applied programs, primarily in Defense and Energy that complement the primary mission, and encourage new ideas that fit the long-term vision of a multidisciplinary laboratory solving problems of national importance to avoid technology surprise.

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5. Dr. Birely stated that the Laboratory is a Government owned contractor operated shop and that they are employees of the University of California. They have about 7800 full time equivalent employees with about 3300 technical staff members who have degrees in science or engineering. About a third are physicists, a third engineers and a third are other physical scientists. The operating budget is close to \$900 million for this fiscal year with an additional \$97 million for construction funding. The Lab at Los Alamos has about 43 square miles of facilities. The primary funding of the Lab (51%) comes from the DOE Defense Programs, an additional 26% from DoD and the Intelligence Community, 18% from DOE for energy research and 5% from reimbursables.

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6. He explained that they have a Division called International Technology which consists of about 120 people which are professionals in the Intelligence business and are also focus for Intelligence work at Los Alamos. He noted that these are the people who can bring to bear the other 7800 people to work on Intelligence problems.

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7. Turning to the nuclear weapons program, he indicated that there are one of two laboratories which are designated by law to design components of a nuclear weapon. When you add Sandia National Laboratory which does many of the non nuclear components and much of the weapons engineering, the entire technology base for the nuclear deterrent is in Los Alamos, Lawrence Livermore and Sandia. He noted that as designs proceed that they are then handed off to integrated contractors for production of the nuclear devices. However, they follow with the development of the weapon, deployment, and for the weapons life time.

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8. He indicated that there seem to be two major problems that are facing the nuclear weapons business. The first is the Soviet's deeply buried underground control centers such as at Sharapovo. The issue is how you hold these at risk with a nuclear warhead.

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17. Dr. Birely concluded with the long-term vision of the Lab and how the Lab hopes to interact with the intelligence community. He noted that the Lab, falls somewhat between American industry and academia in that they do not have the near term drive for profits. He said that they see a bright future for the lab in the continued investigation of high technology and that the Laboratory will remain a national resource in science and technology and will support a broad science and technology base that is maintained at the state-of-the-art with a continued investment in basic research. Dr. Birely extended a personal invitation for each of the Council members to come and visit the Laboratory.

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